QC ABSTRACT

Project Name: Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work: Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
7	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	
		Yield Test	One Test		1	
		ReBend test	One Test		1	1
9	RCC(M20)	Compressive Strength(7days and 28days)	6 sets /150-200cum	183.18	12	22

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-10-11-19c** **Date: 29-07-19**
Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	26-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05%	_
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-10-11-19c**	**Date: 24-08-19**
Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.	
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.	
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.	
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19	
Date of Receipt	:	26-07-19	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	27-07-19	
Environmental Conditions during test	:	Temperature: Humidity:	26°C 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-10-11-19c** **Date: 29-07-19**
Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	26-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1215	1215	8.1	91.9	90-100
3	20 mm	5320	6535	43.6	56.4	30-70
4	10 mm	6255	12790	85.3	14.7	10-35
5	4.75 mm	1637	14427	96.2	3.8	0-5
6	Pan	573	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-10-11-19c** **Date: 29-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.3**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.21**	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-10-11-19c** **Date: 29-07-19**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	26-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	429	429	8.6	91.4	90-100
3	10 mm	2435	2864	57.3	42.7	25-55
4	4.75 mm	1833	4697	93.9	6.1	0-10
5	Pan	303	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-10-11-19c** **Date: 29-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.4**	
3	Specific Gravity	**2.59**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.55**	_
6	Water Absorption(%)	**0.23**	_
7	Aggregate crushing Value(%)	**21.98**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.9**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-10-11-19c** **Date: 29-07-19**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work : *Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.*

Agency : Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.

Customer's Reference : BBMP/EE/BTP/WO/10/2018-19

Date of Receipt : 26-07-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-07-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	56	84	8.4	91.6	60-95	75-100	85-100	95-100
4	1.18 mm	237	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	200	521	52.1	47.9	15-34	35-59	60-79	80-100
6	300 micron	202	723	72.3	27.7	5-20	8-30	12-40	15-50
7	150 micron	193	916	91.6	8.4	0-10	0-10	0-10	0-15
8	Pan	84	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-10-11-19c** **Date: 29-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.51	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID : **CP-2019-10-11-19c** **Date: 31-07-19**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work : Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.

Customer's Reference : BBMP/EE/BTP/WO/10/2018-19

Date of Receipt : 30-07-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 30-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar (mm)	Weight of the sample (kg/m)	Yield stress (N/mm2)	Tensile strength (N/mm2)	Elongation (%)	Bend test	Rebend test
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 08/08/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	03-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	151.15 X 149.20 X 149.26	22551	**8.411**	419.6	18.6	18.5
2	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	149.56 X 149.29 X 151.85	22328	**8.429**	417.5	18.7	
3	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	149.74 X 151.07 X 150.01	22621	**8.063**	413.3	18.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 29/08/2019**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	03-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	151.72 X 151.23 X 149.95	22944	**8.906**	543.1	23.7	23.1
2	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	151.09 X 149.92 X 151.23	22652	**8.271**	505.9	22.3	
3	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	149.47 X 150.94 X 149.05	22561	**8.860**	526.0	23.3	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-10-11-19c** **Date: 08/08/2019**

Project Name : Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.

Name of Work : Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.

Customer's Reference : BBMP/EE/BTP/WO/10/2018-19

Date of Receipt : 03-08-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	149.66 X 151.68 X 150.90	22700	**8.411**	430.4	19.0	18.8
2	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	151.11 X 149.35 X 151.85	22569	**8.429**	420.5	18.6	
3	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	151.47 X 150.63 X 149.37	22817	**8.063**	426.9	18.7	

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Lab ID : **CP-2019-10-11-19c** **Date: 29/08/2019**

Project Name	:	Package-2, includes 5 works of Rs.245.00 lakhs 1) Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No.06 Byatarayanapura Sub Division. 2) Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division. 3) Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No.06 Byatarayanapura Sub Division. 4) Improvements to Drains and asphalting to roads at Bharathnagara Saw mill road in Ward No.06 Byatarayanapura Sub Division. 5) Improvements to Drains and asphalting to Roads at Shiradi Sai Nagara and Hegadenagara in Ward No.06 Bytarayanapura Sub Division.
Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	03-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	150.83 X 149.64 X 149.79	22571	**8.906**	520.7	23.1	23.0
2	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	149.42 X 151.61 X 151.47	22654	**8.271**	512.0	22.6	
3	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	149.35 X 149.07 X 149.43	22264	**8.860**	519.6	23.3	

ಸಹಾಯಕ ಅಧಿಕಾರಿಯಂತರರು
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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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Quality Manager

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Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
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Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	150.22 X 151.76 X 149.27	22798	**8.411**	430.8	18.9	18.4
2	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	149.59 X 149.52 X 150.07	22366	**8.429**	403.2	18.0	
3	Drain Bottom Slab Concrete	M20	01/08/2019	08/08/2019	150.90 X 150.70 X 150.70	22741	**8.063**	414.5	18.2	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Name of Work	:	Improvements to Drains and Asphalting to roads at Balaji Layout near Railway Gate in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.G.Venkatesh, No.623/A, 11th main, HAL 2nd Stage Indiranagar, Bangalore-560008.
Customer's Reference	:	BBMP/EE/BTP/WO/10/2018-19
Date of Receipt	:	03-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	149.59 X 151.84 X 150.59	22713	**8.906**	535.5	23.6	23.4
2	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	150.76 X 150.40 X 151.18	22674	**8.271**	519.2	22.9	
3	Drain Bottom Slab Concrete	M20	01/08/2019	29/08/2019	150.00 X 149.87 X 150.05	22482	**8.860**	530.5	23.6	

ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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ನಿರ್ವಾಹಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರ
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